	Application No.	Applicant(s)
Notice of Allowability	10/602,932	OKUDA ET AL.
	Examiner	Art Unit
	Eric S. McCall	2855
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the of (OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	correspondence address oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to the application as org	inally filed on June 24, 2003.	
2. The allowed claim(s) is/are <u>1-13</u> .		
3. \boxtimes The drawings filed on <u>24 June 2003</u> are accepted by the E	xaminer.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have all priority documents have the priority documents have all priority documen	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet of the	son's Patent Drawing Review (PTO . s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.121	Office action of ings in the front (not the back) of (d).
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	6. Interview Summar Paper No./Mail Da 7. Examiner's Amend 8. Examiner's Statem	ate
of Biological Material	9.	

REASONS FOR ALLOWANCE

The following is an Examiner's statement of reasons for allowance:

Claim 1 has been found to be allowable over the prior art because the prior art fails to teach or suggest an apparatus for detecting a compression top dead center of an engine, comprising:

a controller that detects the top dead center phase immediately preceding a rise in the exhaust pressure detected by the exhaust pressure detection means as the compression top dead center,

in combination with the external driving means and exhaust pressure detection means as claimed.

Claim 4 has been found to be allowable over the prior art because the prior art fails to teach or suggest a method for detecting a compression top dead center of an engine, comprising:

detecting the top dead center phase that immediately precedes a rise in the detected exhaust pressure as the compression top dead center,

Page 3

in combination with the external driving portion and the exhaust pressure detecting as

claimed.

Claim 8 has been found to be allowable over the prior art because the prior art fails to

teach or suggest an apparatus for detecting a compression top dead center of an engine,

comprising:

a controller that receives a signal from the exhaust pressure sensor and detects from the

top dead center phases the compression top dead center based on a change in the exhaust

pressure detected by the exhaust pressure sensor,

in combination with the electric motor and exhaust pressure sensor as claimed.

All of the remaining claims have been found to be allowable over the prior art due to said

claims' dependency on one of the above claims.

CONCLUSION

Any comments considered necessary by the Applicant must be submitted no later than

the payment of the issue fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Application/Control Number: 10/602,932

Art Unit: 2855

Page 4

Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Eric S. McCall whose telephone number is (571) 272-2183.

The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eric S. McCall Primary Examiner Art Unit 2855

Oct. 21, 2004